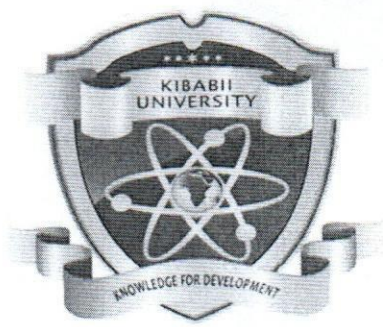


35 35



(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR
MAIN
SECOND YEAR SECOND SEMESTER
FOR THE DIPLOMA
IN
SOCIAL WORK & CRIMINOLOGY

COURSE CODE: DCR 064

COURSE TITLE: SOCIAL STATISTICS

DATE: 13th December **TIME:** 2pm - 4pm.

INSTRUCTIONS TO CANDIDATES

Answer question one (compulsory) and any other two questions

TIME: 2 Hours

Kibabii University observes ZERO tolerance to examination cheating

QUESTION ONE

- a) There are two types of sources of data. Describe them briefly. 4 Marks
- b) Differentiate between the following terms 6 Marks
 - I. Population and Sample
 - II. Systematic and cluster sampling
 - III. Bar graph and histogram
- c) The distribution below shows exam scores for some students

Class.	90-98	99-107	108-116	117-125	126-134
Freq.	6	22	43	28	9

- Use it to draw a frequency polygon 6 Marks
- Use it to compute 8 Marks
 - Mean
 - Mode
 - Standard deviation
- d) Give any three differences between parametric and non-parametric statistics. 6 Marks

QUESTION TWO

- a. What is the difference between descriptive statistics and inferential statistics? 4 Marks
- b. Discuss any four data collection methods 16 Marks

QUESTION THREE

- a) Define frequency distribution 2 Marks
- b) Enumerate the three frequency distribution graphs 6 Marks
- c) Use the data below to construct a grouped frequency distribution 6 Marks

100	127	120	134	118	105	110	109	112	110	118	117	116
	118	122	114	114	105	109	107	112	114	115	118	117
	118	122	106	110	116	108	110	121	113	120	119	111
	104	111	120	113	120	117	105	110	118	112	114	114
	112											

- Draw a histogram using the distribution in C above. 6 Marks

QUESTION FOUR

- a) Find the standard deviation of 2,4,8,7,9,4,6,10,8 and 5 8 Marks
- b) Find the quartile and mean absolute deviation of 9,3,4,2,9,5,8,4,7,4 12 Marks

QUESTION FIVE

- a) Discuss any three properties of a normal distribution 6 Marks
- b) State and discuss the four levels of measurement in statistics 8 Marks
- c) Explain any three ways in which social statistics can be abuse 6 Marks